

A wholly-owned substalary of Link Energy, LLC JP Morgan Chase Tower 600 Travis, Suite 5100 Houston, TX 77002 Main: 281.840.4000 Fax: 281.840.4001

January 26, 2009

The Natural Gas Star Program U.S. EPA (6207J) 1200 Pennsylvania Avenue, NW Washington, DC 20460

Re: Implementation Plan for Linn Energy, LLC

Dear Sir or Madam:

Enclosed please find our Natural Gas Star Implementation Plan. If there are any questions, please do not hesitate to contact me at 281.840.4163 or pespenan@linnenergy.com.

Sincerely,

Rent M. Esperan

Paul M. Espenan EH&S Manager

Enclosure

nplementation Plan



Sector

Production

Company Information

Partner Address Label Here

please make corrections below. Linn Energy, LLC Company Name:

If the information provided above is incorrect,

Paul Espenan

EH&S Manager 600 Travis, Suite 5100

City, State, Zip Code: Houston, TX 77024

281.840.4163

832.426.5963

Implementation Plan Elements

Best Management Practices (BMPs)

ring BMPs have been identified as significant opportunities to cost effectively reduce methane emissions from ction sector. They were selected based on their applicability to the industry, economic feasibility, and costess. There are 2 core BMPs for the production sector:

Identify and replace high-bleed pneumatic devices

install flash tank separators on glycol dehydrators ed information on these BMPs, please refer to the Lessons Learned publications on the Natural Gas STAR

Partner Reported Opportunities (PROs) artners have reported many processes and technologies that are considered "other Best Management by the program. New partners are encouraged to evaluate and report current and new practices or

asstar/newsroom/partnerupdate.html.

epa.gov/gasstar/tools/recommended.html.

Inventory Past Reductions

n the Spring 1999 Natural Gas STAR Partner Update, which can be viewed at:

pespenan@linnenergy.com

epa.gov/gasstar/tools/recommended.html.

es that cost effectively reduce methane emissions. PROs are made available to all partners, and can be

re encouraged to report past methane emission reductions back to 1990. Accounting for these historical will create a permanent record of your company's methane emission reduction efforts. More information is

he Implementation Plan is designed to be a dynamic tool for Natural Gas STAR Partners to plan their program activities. As company priorities and plans shift over time, the Implementation Plan may be revised or updated by submitting a new form to the program.

3

Position:

Address:

Telephone:

Fax:

Email:

Gas Star Contact:

ELEMENT 1 Best Management Practices

Identify and Replace High-Bleed Pneumatic Devices

Estimated Reduction umatic devices used to control and monitor gas and liquid flows and levels in ydrators and separators, temperature in dehydrator regenerators, and pressure in Potential h tanks emit large amounts of methane into the atmosphere. Replacing these with 124 Mcf/year/device or no-bleed devices reduces or eliminates emissions and improves safety. **⊠** No you be implementing this BMP? ☐ Yes If no, why? Not cost effective May consider at a later date Other Most, if not all, have already been replaced, by previous owners of the assets we operate. ase describe: All new equipment uses the no-bleed type. If additional high bleed pneumatics are identified, we to replace them. Many of our assets do not utilize utilize pneumatic controls, because they are on a uum. es, at what scale will you be implementing this BMP? Company Wide Pilot Project Other ase describe: _ **Activity Summary** mber of high-bleed pneumatic devices in system? mber of high-bleed pneumatic devices to be replaced? Replacement Schedule mber of high-bleed pneumatic devices to be replaced by the end of: Year 1: ____ Year 2: ___ Year 3: ___ Year 4: _ Additional Information on Anticipated Plans and Projects ditional space is needed, please continue on the back.

BMP 2 Install Flash Tank Separators on Glycol Dehydrators talling a flash tank separator in a glycol dehydrator facilitates the removal of thane and natural gas liguids from the glycol stream. The recovered gas can put back into the pipeline, used as a fuel on-site, or flared. Il you be implementing this BMP? ✓ Yes If no, why?

Estimated Reduction Potential 170 scf/MMcf of throughput

ease desc	ribe: We have approximately 12 dehydrators company-wide that we will evaluate.
	Pilot Project Other
<u> </u>	Company Wide
	Onemany Milde

Not cost effective

ease describe: ...

May consider at a later date

mber of flash tank separators to be installed by the end of:

mber of glycol dehydrators currently equipped with flash tank separators

mber of glycol dehydrators suitable for flash tank installation?

Year 1: _____ Year 2: ____ Year 3: ____ Year 4: ____

Additional Information on Anticipated Plans and Projects

Replacement Schedule

ditional space is needed, please continue on the back.

Best Management Practices

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rted to Natural Gas STAR as PROs. Following is a	logies or practices to reduce methane emissions. These callist of some of the PROs that have been reported by other ons (for more information on these PROs, please view:
estall Vapor Recovery Units (VRUs) erform reduced emissions completions estall electronic safety devices	φ Install instrument air systems φ Eliminate unnecessary equipment and/or systems φ Install plunger lifts in gas wells
PROs you will be implementing	Please describe
of Infrared Camera to find leaks. that scale will you be implementing this BMP? Company Wide Pilot Project Other	We have purchased a FLIR GasFind IR and we will be us company-wide to identify gas leaks.
ar-Powered, Temperature Actuated Chemical hps what scale will you be implementing this BMP? Company Wide Pilot Project Other	We are evaluating use of chemical pumps, including temperature controlled and solar powered.
nger Lift Installation what scale will you be implementing this BMP? Company Wide Pilot Project Other	We are installing programmable plunger lifts.
what scale will you be implementing this BMP? Company Wide Pilot Project Other	We are evaluating chilling and recovery of natural gas to make natural gas liquids from a stranded gas source tha currently burned.

Inventory Past Reductions

An inventory of past reductions will help to create a permanent record of your past efforts.

a first step, many new partners find it useful to inventory and document past methane emission reduction orts. The inventory process helps companies quantify the success of their past activities and target future ission reduction efforts. Historical emission reductions identified as part of the inventory process can be ported to the Gas STAR Program.

Il you inventory past activities to include in your annual report? **X**Yes ΠNο res, please describe your company's plans for reviewing past emission reduction activities.

plan to quantify the reductions attributable to the no bleed pneumatics, and plunger nstallations.

Natural Gas STAR Program thanks you for your time.

ise send completed forms to:

gular Mail Natural Gas STAR Program

. EPA (6207J)

0 Pennsylvania Avenue, NW

shington. DC 20460

Express/Overnight Mail The Natural Gas STAR Program

U.S. EPA (6207J) 1310 L Street. NW Washington, DC 20005

estions? Please call Roger Fernandez: (202) 343-9086 or Fax (202) 343-2202



porting and recordkeeping burden for this collection of estimated to average 25 hours for each new response and 12 sequent responses. Send comments on the Agency's need for on, the accuracy of the provided burden estimates, and any